



SERVICE INFORMATION LETTER

AVOX Systems Inc. (Formerly Scott Aviation, Inc.)
225 Erie Street • Lancaster, NY 14086-9502 • USA
Tel: 716-683-5100 • Fax: 716-681-1089 • Web Site: www.avoxsys.com

OXYGEN - ATA CHAPTER 35

VENDOR CODE: 53655

TEST DATA SHEET FOR P/N 894 Series Portable Oxygen Unit

1. BACKGROUND

- A. Overhaul Manual H-183 specifies the tests that must be passed in order to return a unit to service. This SIL provides a standardized form on which to record the results of the required functional tests. This form will be incorporated into the Overhaul Manual at the next revision.
- B. You are authorized to copy the form on page 2. If you copy the form on page 2, you must copy all of the form.
- C. Use this form only for the AVOX Systems component printed on the form. Do not use this form for any other AVOX Systems components or for any components of another company.

2. EFFECTIVITY

- A. Aircraft
The Test Data Sheet on page 2 can be used for all units whether removed from any aircraft or from spares inventory.
- B. This SIL applies to P/N 894 Series Portable Oxygen Unit only.

3. MATERIALS

The only material required by this SIL is the Test Data Sheet on page 2.

4. ACCOMPLISHMENT OF SIL

- A. Make complete copies of the Test Data Sheet on page 2.
- B. Use a copy of the Test Data Sheet from page 2 to record the results of tests whenever a P/N 894 Series Portable Oxygen Unit is tested.

5. TO CONTACT AVOX SYSTEMS:

Use the contact information below to get a copy of an Overhaul Manual or the revision status of a publication. Give the AVOX Systems part number and the aircraft model when you request an Overhaul Manual copy.

First tier operators:

IN-Services Europe (HQ)
Yann Lainé
7, Avenue du Parana
B. P. 303
91958 Courtaboeuf Cedex
France

Telephone: +33-1-64-86-69-64
Fax: +33-1-64-86-69-84
E-mail: ylaine@intertechnique.zodiac.com
Website: www.in-services.com

Second tier operators:

AVOX Systems
Technical Publications
225 Erie Street
Lancaster, NY
14086-9502
USA
716-683-5100
716-681-1089
avoxtechpub@avox.zodiac.com
www.avoxsys.com



OVERHAUL MANUAL H-183 TEST DATA SHEET 894 Portable Oxygen Unit

Tested by: _____

Date: _____

Part Number: 894- _____

Inspected by: _____

Date: _____

Serial Number: _____

Refer to the Inspection, Repair, and Replacement, and the Testing, and Trouble Shooting sections of OVERHAUL MANUAL H-183.**D. Inspection, Repair, and Replacement**

Refer to the Inspection, Repair, and Replacement section for cylinder service life and the hydrostatic test frequency requirements. Check the condition of cylinder surfaces for heat or fire damage, dent, gouges, cracks, distortion, and/or thread damage.

☐ FAIL	PASS ☐
-------------------------------	-------------------------------

F. Oxygen Outlet Assembly**1. Operating and Leakage Tests**

Outlet Assembly Freely Disengages/Engages. Repeat Multiple Times.	Applied Pressure psig (MPa)	Internal Leakage 0.001 lpm Allowed MAX	Applied Pressure psig (MPa)	External Leakage 0.001 lpm Allowed MAX
☐ FAIL PASS ☐	70 (0.48)	☐ FAIL PASS ☐	70 (0.48)	☐ FAIL PASS ☐

1. Relief Valve Test Procedures**B.**

Inlet Pressure psig (MPa)	No Leakage From Relief Valve	Inlet Pressure psig (MPa)	Relief Valve Flows Oxygen	Inlet Pressure psig (MPa)	Valve Reseats & No Leakage from Relief Valve
90 (0.62)	☐ FAIL PASS ☐	135 (0.93)	☐ FAIL PASS ☐	89 (0.61)	☐ FAIL PASS ☐

1. Outlet Assembly Test Procedures**C.**

Inlet Pressure psig (MPa)	0 Leakage Allowed	Mask Plug-in Holds Securely & Oxygen Flows	Inlet Pressure psig (MPa)	Outlet Flows Agree With Table	No External Leakage at Outlet and Mask Plug-in
70 ± 10 (0.48 ± 0.069)	☐ FAIL PASS ☐	☐ FAIL PASS ☐	70 ± 10 (0.48 ± 0.069)	☐ FAIL PASS ☐	☐ FAIL PASS ☐

1. Regulator Adjustment & Test Procedures**F.**

Regulated Pressure psig (MPa)	Adjust Regulator to Flow (lpm)	Outlet Flows Agree With Table	Lock-up Pressure 85 psi (0.586 MPa)	Repeat Tests 3 Times at 24 Hour Intervals	No External Leakage at Outlet & Mask Plug-in
70 ± 10 (0.48 ± 0.069)	4.3 Approx.	☐ FAIL PASS ☐	☐ FAIL PASS ☐	☐ FAIL PASS ☐	☐ FAIL PASS ☐

**G. Portable Oxygen Unit Test Procedure
Final Test**

Inlet Pressure psig (MPa)	No External Leakage Allowed	O ₂ Flows to Mask Assembly
1850 (12.8)	☐ FAIL PASS ☐	☐ FAIL PASS ☐

NOTE: FLOWS ARE GIVEN FOR OXYGEN TEST GAS @ NTPD.
APPLY THE APPROPRIATE CORRECTION FACTOR IF ANOTHER MEDIUM IS USED.